

# IVD Example

## SROC

$Y_i$

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Table 1: IVD example: the estimation under four selective publication mechanisms

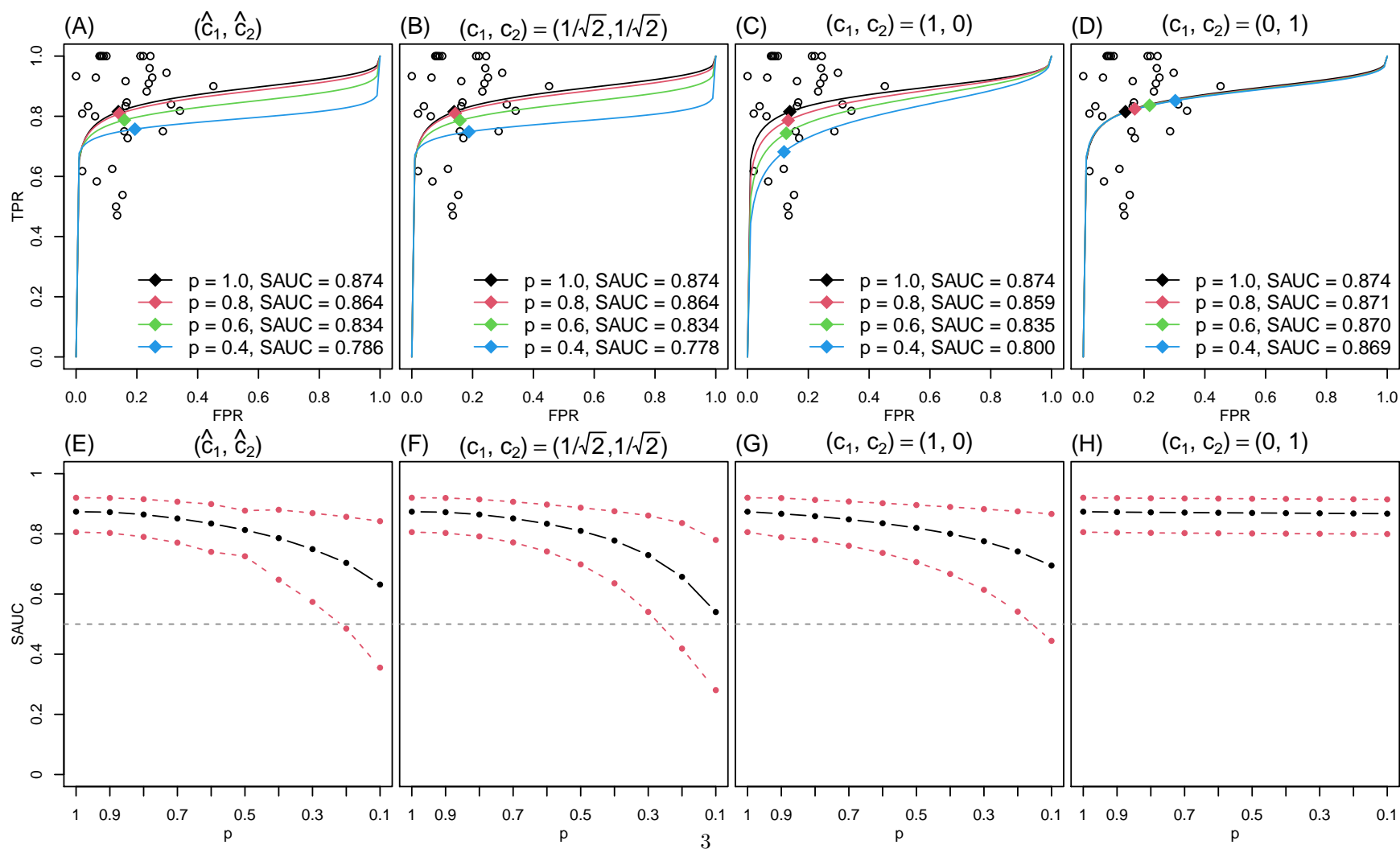
$(c_1, c_2)$	$p$	SAUC (95%CI)	Se (95%CI)	Sp (95%CI)	$\beta$ (95%CI)	$\alpha_p$	$\mu_1$	$\mu_2$	$\tau_1$	$\tau_2$	$\rho$
$(\hat{c}_1, \hat{c}_2)$	1.0	0.87 (0.81, 0.92)	0.82 (0.76, 0.86)	0.86 (0.82, 0.89)			1.48	1.82	0.60	0.83	-0.42
	0.8	0.86 (0.79, 0.92)	0.81 (0.75, 0.86)	0.86 (0.82, 0.89)	2.00 (-0.35, 4.35)	-3.45	1.44	1.79	0.60	0.83	-0.39
	0.6	0.83 (0.74, 0.90)	0.79 (0.72, 0.84)	0.84 (0.79, 0.88)	2.00 (-0.25, 4.25)	-4.86	1.31	1.67	0.59	0.86	-0.31
	0.4	0.79 (0.65, 0.88)	0.76 (0.68, 0.82)	0.81 (0.74, 0.86)	2.00 (0.53, 3.47)	-5.71	1.14	1.43	0.59	0.91	-0.19
(0.7, 0.7)	1.0	0.87 (0.81, 0.92)	0.82 (0.76, 0.86)	0.86 (0.82, 0.89)			1.48	1.82	0.60	0.83	-0.42
	0.8	0.86 (0.79, 0.91)	0.81 (0.75, 0.85)	0.86 (0.82, 0.89)	2.00 (-0.13, 4.13)	-3.64	1.44	1.79	0.60	0.84	-0.39
	0.6	0.83 (0.74, 0.90)	0.79 (0.73, 0.83)	0.84 (0.80, 0.88)	2.00 (0.26, 3.74)	-4.76	1.30	1.67	0.59	0.86	-0.31
	0.4	0.78 (0.64, 0.88)	0.75 (0.68, 0.81)	0.81 (0.75, 0.86)	2.00 (0.52, 3.48)	-5.42	1.09	1.46	0.61	0.90	-0.18
(1, 0)	1.0	0.87 (0.81, 0.92)	0.82 (0.76, 0.86)	0.86 (0.82, 0.89)			1.48	1.82	0.60	0.83	-0.42
	0.8	0.86 (0.78, 0.91)	0.79 (0.73, 0.84)	0.87 (0.83, 0.90)	1.15 (0.01, 2.29)	-0.20	1.30	1.87	0.68	0.83	-0.41
	0.6	0.84 (0.74, 0.90)	0.74 (0.67, 0.81)	0.87 (0.83, 0.91)	1.06 (0.32, 1.80)	-0.86	1.06	1.92	0.73	0.84	-0.41
	0.4	0.80 (0.67, 0.89)	0.68 (0.56, 0.78)	0.88 (0.83, 0.92)	1.00 (0.35, 1.66)	-1.32	0.76	1.99	0.78	0.84	-0.41
(0, 1)	1.0	0.87 (0.81, 0.92)	0.82 (0.76, 0.86)	0.86 (0.82, 0.89)			1.48	1.82	0.60	0.83	-0.42
	0.8	0.87 (0.80, 0.92)	0.82 (0.77, 0.87)	0.83 (0.78, 0.87)	0.67 (-0.05, 1.38)	-1.21	1.55	1.59	0.61	0.97	-0.47
	0.6	0.87 (0.80, 0.92)	0.84 (0.77, 0.88)	0.78 (0.70, 0.84)	0.62 (0.08, 1.17)	-1.74	1.63	1.28	0.63	1.10	-0.50
	0.4	0.87 (0.80, 0.92)	0.85 (0.78, 0.90)	0.70 (0.55, 0.82)	0.59 (0.09, 1.09)	-2.06	1.75	0.83	0.65	1.25	-0.54

SROC plot results

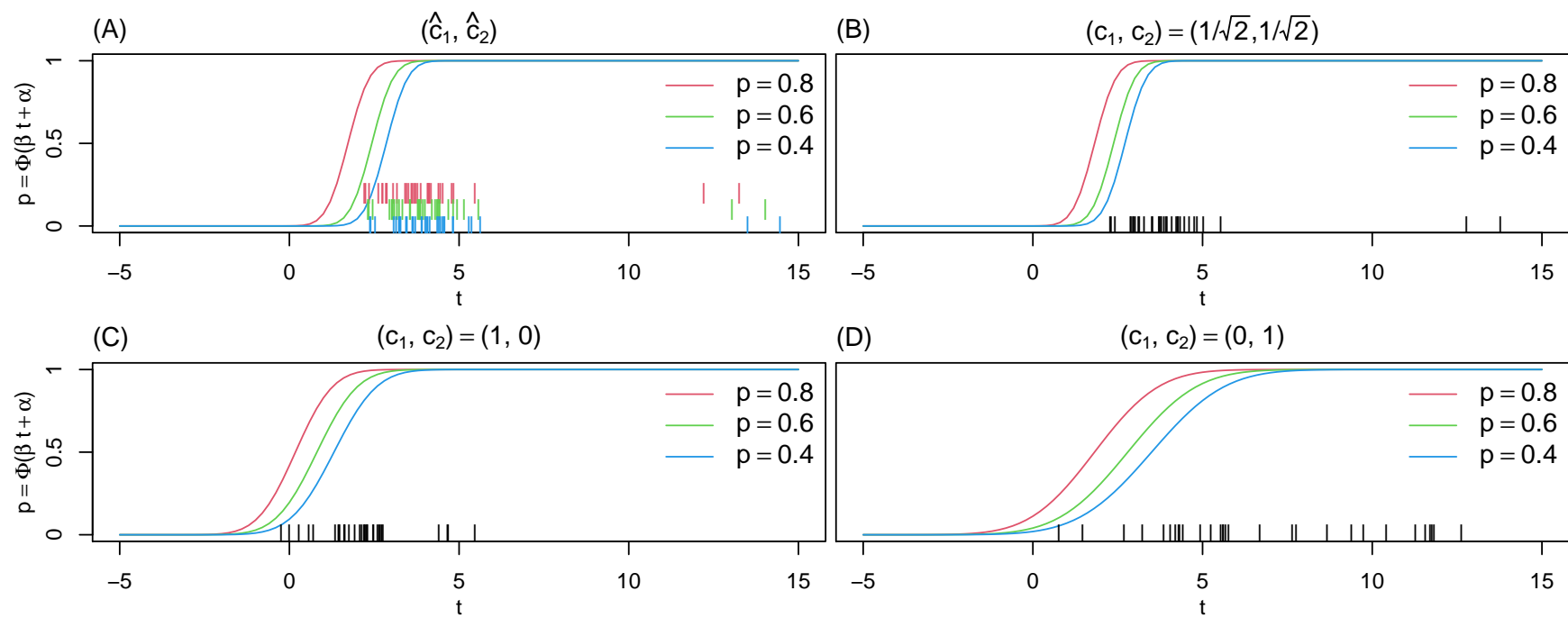
TABLE: ESTIMATES

SAUC matplot results

PLOT: SROC curve and corresponding SAUC



# PLOT: Probit of $\alpha$ and $\beta$



## PLOT: Funnel plot

